

**Current position**

KIT Institute for Processengineering in Life Sciences, Section II: Technical Biology. KIT Associate Fellow and Group Leader Technical Microbiology, anaerobic Microbiology, Syngas Fermentation, Lecturer for courses on Genetics, Microbiology and Molecular Biotechnology practical courses on Enzyme Technology and Bioprocess Engineering

Previous positions

1998 - 2003 Post-Doc Position and Group leader at University Jena

1998 Post-Doc Position and Group leader at University of Stuttgart

Scientific degree

Dr.-rer.nat. (PhD) in Microbiology University of Stuttgart (1998)

Recent research topics

Syngas fermentation with acetogenic bacteria. Genomic and physiologic characterization of thermophilic and hydrogenogenic (H₂-producing) bacteria. Fermentation of CO containing gas with aerobic and anaerobic bacteria.

Awards, honors, memberships

Member of the VAAM Vereinigung für Allgemeine und Angewandte Mikrobiologie since 1993

Publications/Patents (5 most important)

- F. Oswald, S. Dörsam, N. Veith, M. Zwick, **A. Neumann**, K. Ochsenreither, C. Sylatk, (2016). Sequential mixed cultures: From syngas to malic acid. *Frontiers in Microbiology*, 7(JUN) [doi:10.3389/fmicb.2016.00891](https://doi.org/10.3389/fmicb.2016.00891)
- F. Oswald, I. K. Stoll, M. Zwick, S. Herbig, J. Sauer, N. Boukis, **A. Neumann**, (2018) For-mic Acid Formation by *Clostridium ljungdahlii* at Elevated Pressures of Carbon Dioxide and Hydrogen. *Frontiers in Bioengineering and Biotechnology*. 6:6. [doi:10.3389/fbioe.2018.00006](https://doi.org/10.3389/fbioe.2018.00006)
- F. Oswald, M. Zwick, O. Omar, E. N. Hotz, **A. Neumann**, Growth and Product Formation of *Clostridium ljungdahlii* in Presence of Cyanide. *Frontiers in Microbiology*. (2018). 9:1213. [doi:10.3389/fmicb.2018.01213](https://doi.org/10.3389/fmicb.2018.01213)
- T. Mohr, H. Aliyu, R. Küchlin, S. Polliack, M. Zwick, **A. Neumann**, P. Maayer, (2018). CO-dependent hydrogen production by the facultative anaerobe *Parageobacillus thermoglucosidasius*. *Microbial Cell Factories*, 17(1), 1–12. [doi:10.1186/s12934-018-0954-3](https://doi.org/10.1186/s12934-018-0954-3)
- T. Mohr, H. Aliyu, R. Küchlin, M. Zwick, D. Cowan, **A. Neumann**, P. de Maayer, (2018). Comparative genomic analysis of *Parageobacillus thermoglucosidasius* strains with distinct hydrogenogenic capacities. *BMC Genomics*, 19(1), 1–10. [doi:10.1186/s12864-018-5302-9](https://doi.org/10.1186/s12864-018-5302-9)